INTERNATIONAL SEARCH REPORT

PCT/ 3/12256

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/007 G11B7/013

G11B20/00

REC'd PCT/PTO 16 MAY 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC} & 7 & \mbox{G11B} & \mbox{H03M} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/25645 A (ISHIBASHI HIROMICHI; MIYASHITA HARUMITSU (JP); SENGA HISASHI (JP); TA) 28 March 2002 (2002-03-28) abstract page 29, line 8 - line 16; figure 10 figure 20	1,15-17
A	EP 0 723 216 A (SONY CORP) 24 July 1996 (1996-07-24) column 6, line 1 - line 48; figures 2B,3 figure 4 figure 7	1,15-17
A	EP 1 168 312 A (MATSUSHITA ELECTRIC IND CO LTD) 2 January 2002 (2002-01-02) paragraph '0036! - paragraph '0041!; figures 1,2	1,15-17

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family 		
Date of the actual completion of the International search 12 May 2004	Date of mailing of the international search report 19/05/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax (+31–70) 340–3016	Authorized officer Holubov, C		

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

PCT/L 3/12256

0.15		PCT/L03/12256				
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	EP 0 299 573 A (PHILIPS NV) 18 January 1989 (1989-01-18) the whole document	1,15-17				
Ā	EP 0 703 576 A (VICTOR COMPANY OF JAPAN) 27 March 1996 (1996-03-27)					
A	US 4 977 553 A (YOKOGAWA FUMIHIKO) 11 December 1990 (1990-12-11)					
E	WO 03/094158 A (LG ELECTRONICS INC) 13 November 2003 (2003-11-13) page 16 - page 19; figures 12-15	1-6, 14-17				

INTERNATIONAL SEARCH REPORT

PCT/L 3/12256

					PC1/L	3 /12256
	atent document d in search report		Publication date		Patent family member(s)	Publication date
WO	0225645	A	28-03-2002	AU CN EP WO JP US	8810401 A 1466750 T 1325497 A2 0225645 A2 2002203369 A 2003185128 A1	02-04-2002 07-01-2004 09-07-2003 28-03-2002 19-07-2002 02-10-2003
EP	0723216	A	24-07-1996	JP AT AU CA CN DE DK EP ES US	8147704 A 202422 T 716354 B2 3789195 A 2163177 A1 1133471 A ,B 69521402 D1 69521402 T2 723216 T3 1130591 A2 0723216 A2 2159596 T3 6304971 B1 6122739 A	07-06-1996 15-07-2001 24-02-2000 23-05-1996 19-05-1996 16-10-1996 26-07-2001 16-05-2002 01-10-2001 05-09-2001 24-07-1996 16-10-2001 16-10-2001 19-09-2000
EP	1168312	Α	02-01-2002	JP EP US CN WO TW	2001084596 A 1168312 A1 6549498 B1 1335983 T 0120603 A1 518579 B	30-03-2001 02-01-2002 15-04-2003 13-02-2002 22-03-2001 21-01-2003
EP	0299573	A	18-01-1989 ,·	NL DE DE EP JP US	8701632 A 3885169 D1 3885169 T2 0299573 A1 1039632 A 4907216 A	01-02-1989 02-12-1993 05-05-1994 18-01-1989 09-02-1989 06-03-1990
EP	0703576	A	27-03-1996	JP JP CN EP US	3061098 B2 7272282 A 1142663 A 0703576 A1 5572507 A	10-07-2000 20-10-1995 12-02-1997 27-03-1996 05-11-1996
US 	4977553 	Α	11-12-1990	JP JP	2543523 B2 63291218 A	16-10-1996 29-11-1988
WO	03094158 	Α	13-11-2003	WO US	03094158 A1 2003227853 A1	13-11-2003 11-12-2003